

**DOE's RCRA ORIENTATION FOR FACILITY MANAGERS**

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**DOE's RCRA Orientation for Nuclear and Facility Safety  
U.S. Department of Energy/Germantown, Room E-301  
March 5, 1997**

**AGENDA**

9:00 am	Welcome	DOE
9:05 am	Introduction to RCRA and Liability Overview	Kaye Sigmon, ORNL
10:00 am	Overview of Solid Waste Determination	Kaye Sigmon, ORNL
10:30 am	BREAK	
10:40 am	Overview of Hazardous Waste Determination	Jace Cujé, Energetics
11:30 am	LUNCH	
12:30 pm	Permitting	Jace Cujé, Energetics
1:30 pm	Hazardous Waste Cleanup Programs	Kaye Sigmon, ORNL
2:00 pm	BREAK	
2:15 pm	Emerging Issues in Hazardous Waste Management	Jace Cujé, Energetics
2:45 pm	Self-Assessment Test	
3:00 pm	ADJOURN	

## List of Acronyms

<b>Acronym</b>	<b>Definition</b>
BDAT	best demonstrated available technology
CAMU	corrective action management unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	<i>Code of Federal Regulations</i>
CMI	Corrective Measures Implementation
CMS	Corrective Measures Study
DOT	Department of Transportation
EPA	U. S. Environmental Protection Agency
FR	<i>Federal Register</i>
HMT	Hazardous Materials Transportation Table
HMTA	Hazardous Materials Transportation Act
HSWA	Hazardous and Solid Waste Amendments of 1984
HWIR	Hazardous Waste Identification Rule
HWMU	hazardous waste management unit
LDR	land disposal restrictions
MSWLF	municipal solid waste landfill
MTR	minimum technology requirements
NRC	Nuclear Regulatory Commission
OSWER	EPA's Office of Solid Waste and Emergency Response
PSN	proper shipping name
PG	packing group
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation

RQ	reportable quantity
SARA	Superfund Amendments and Reauthorization Act of 1986
SWDA	Solid Waste Disposal Act
SWMU	solid waste management unit
TSD	treatment, storage, and disposal
TSDF	treatment, storage, and disposal facility
TU	temporary unit
UHC	underlying hazardous constituent
USC	<i>United States Code</i>
UST	underground storage tank
UTS	universal treatment standard

## About DOE's *RCRA Orientation for Facility Managers* Internet-based Courseware

### Introduction

DOE and the Office of Environmental Policy and Assistance (OEPA) developed a *RCRA Orientation Workshop* under a joint funding venture that included the Savannah River Site, the Albuquerque Operations Office, and OEPA's RCRA/CERCLA Division (EH-413). It was designed to address the topics included in the U.S. Environmental Protection Agency's (EPA) *RCRA Orientation Manual* and began as a two-day orientation workshop. In 1995, it was expanded by integrating a separate DOE one-day workshop titled *Definition of Solid and Hazardous Wastes*.

Subsequent to the development of the three-day RCRA Orientation Workshop, a request from the Deputy Assistant Secretary for Nuclear and Facility Safety (EH-3) spurred the development of DOE's *RCRA Orientation for Nuclear and Facility Safety*, which was presented on March 5, 1997, at Germantown, MD. Course materials were derived from the more formal three-day course, but were modified to meet the needs of Nuclear Safety Managers. Specifically, to address these needs, two new modules (diverging from the three-day course) were prepared. One of the new modules compares and contrasts RCRA closure and corrective action with CERCLA remedial action by incorporating Oak Ridge Reservation as an example of a radioactively contaminated site that was closed under RCRA, but is undergoing remediation under CERCLA. The other module focused on emerging regulations and offered a snapshot of those expected to impact the Department most dramatically.

Recently, EH-413 joined with the National Environmental Training Office (EM-13) to present to DOE and contractor personnel the consolidated RCRA Orientation/Definition of Solid and Hazardous Wastes training course at two field locations: Chicago, IL, July 22-24, 1997; and Albuquerque, NM, September 9-11, 1997. As part of the final course evaluation, several participants attending the courses suggested that the class would have been more informative if the course materials had been provided in advance. In response to these comments, and recognizing that the implementation of this workshop is labor-intensive and costly because of travel and logistics, EH-413 has elected to offer courseware from DOE's *RCRA Orientation for Nuclear and Facility Safety Managers* (now titled *RCRA Orientation for Facility Managers*) on the OEPA Website.

### Course Objectives

Placing the *RCRA Orientation for Facility Managers* modified courseware on the OEPA Website satisfies two objectives. First, it provides persons that may be interested in attending (or having one of their staff attend) the three-day course with an opportunity to examine similar course materials to ascertain whether the three-day course will meet their individual needs. Second, if the three-day course goes beyond their needs, this course furnishes an introduction to RCRA that may serve as a cost-effective alternative to attending the three-day workshops. Although it is based on and consists of the training course originally developed for Nuclear Safety Managers, EH-413 believes that this version constitutes an appropriate introduction to RCRA for any/all mid-level managers. It is not, however, intended to serve as a substitute for the complete three-day *RCRA Orientation Workshop*.

## Courseware Organization

The *RCRA Orientation for Facility Managers* modified courseware consists of downloadable portable document format (PDF) electronic files. The course is organized by agenda topics and consists of front-end materials (i.e., Introduction, Master Table of Contents, Master Regulatory-Statutory Citation/Key Word Index, and Acronym List) and six courseware modules including:

- Introduction to RCRA and Liability Overview,
- Overview of Solid Waste Determination,
- Overview of Hazardous Waste Determination,
- Permitting,
- Hazardous Waste Cleanup Programs,
- Emerging Issues in Hazardous Waste Management.

Workshop materials are organized and presented in a manner which facilitates the use of the course notebook as a RCRA reference document. First, these front-end materials are equipped with a Master Table of Contents that identifies the individual elements associated with each component of the courseware. Second, a copy of the original course Agenda is presented. Third, a List of Acronyms is provided. Fourth, the courseware Introduction offers some insight into the objectives, content, and use of the courseware materials. Fifth, additional Internet resources are listed for further information. Finally, a Master Regulatory-Statutory Citation/Key Word Index, which is a compilation of each module-specific Regulatory-Statutory Citation/Key Word Index, should help guide users to appropriate sections of the courseware.

Regarding the content each PDF Handout courseware file, each module has been equipped to serve as stand-alone resource. It integrates previously developed workshop materials with the more recently prepared elements appearing in Table 1.

**Table 1. RCRA Orientation for Facility Managers  
Self-Study Courseware Materials**

- |   |
|---|
| <ul style="list-style-type: none"><li>• Introductory page</li><li>• For each course module, the following appear within the module's file:<ul style="list-style-type: none"><li>- List of module contents</li><li>- Module-specific enabling objectives</li><li>- Self-assessment questions/answers</li><li>- Module-specific statutory-regulatory citation/key word index</li><li>- Cross-link table that identifies hypertext links to additional Internet-accessible resources for hazardous waste-related information, where available.</li></ul></li></ul> |
|---|

As noted in Table 1, each PDF Handout module includes a "List of Module Contents" for easy reference. Each module-specific list identifies all of the module-specific components and suggested supplemental resources. Supplemental resources are listed once in the order that they first appear.

## Using the Courseware Materials

Users can elect to access and download any or all of the PDF electronic files. Users can begin their exploration of the *RCRA Orientation for Facility Managers* courseware materials by:

- Examining either the Master Table of Contents or the Master Regulatory-Statutory Citation/Key Word Index to identify the availability and location of a topic of interest [Note: Modules are arranged in the order of the agenda. The “List of Module Contents,” which appears in each PDF Handout file, outlines the materials within its module.], or
- Simply “digging-in” and sequentially examining the course materials.

To assist users in accessing additional Internet resources, module-specific hypertext links have been inserted into select points within each of the six training modules (PDF Handout files only). They appear in both the slide and notes portions as either *blue italicized text* (the first time a link to a particular resource is offered in a given module) or *green italicized text* (each subsequent link to that same resource). Hypertext links are assigned to terms and phrases for which additional Internet resources such as additional EH-413 guidance documents, Internet Websites, etc. are available.

While in the PDF Handout, upon identifying a highlighted term or phase of interest, users can access the additional Internet resources by clicking on the highlighted text, which will then link the user to another Internet resource. In limited cases, however, the blue or green highlighted term or phase does not furnish a hypertext link (i.e., the suggested resource is not Internet-accessible). In these cases (and when examining the Vugraphs), users should review the module-specific cross-link tables to identify the supplemental resource. Cross-link tables list: (1) the module-specific page and line on which the highlighted text or phase appears, (2) the specific cross-link language, and (3) the title and document number for each supplemental resource (Internet-accessible or otherwise). For those resources that are not Internet-accessible, users are encouraged to obtain a hard copy of the suggested resource through DOE’s:

1. Office of Environment, Safety and Health Information Center by:
  - Calling Toll-Free: 1-800-473-4375 or in D.C.: 301-903-8358;
  - Communicating electronically, via Internet, to [esh.infocenter@hq.doe.gov](mailto:esh.infocenter@hq.doe.gov); or
2. Center for Environmental Management Information by:
  - Calling Toll-Free: 1-800-736-3282, or in D.C.:202-863-5084;
  - Submitting written requests to: P.O. Box 23769, Washington, D.C. 20026-3769; or
  - Communicating electronically, via Internet, to [eminfo@erols.com](mailto:eminfo@erols.com)

## **The Resource Conservation and Recovery Act (RCRA) Orientation & Definition of Solid and Hazardous Waste Course and Manual, ENV211**

The following information is provided for those persons considering the three-day course.

LENGTH: 24 hrs.

COST: Government Employees: There is no cost.

Contractor Employees and Non-Government Attendees: Cost is \$660 per person.

There is a 25% discount for organizations with four (4) or more attendees. The discounted cost would be \$495 per person.

PROVIDER: Oak Ridge National Laboratory (ORNL)/ENERGETICS  
SPONSOR: DOE National Environmental Training Office and EH-413  
CONTACT: (803) 725-0814 or NETO@srs.gov

INTENDED AUDIENCE: The course is designed for DOE and contractor personnel with little or no RCRA experience. DOE personnel new to waste management or working in the areas of (non-hazardous) solid waste, installation or remediation of underground storage tanks, and environmental restoration will benefit from the class. The class also is useful to anyone wishing to refresh their knowledge of the RCRA program and its requirements.

COURSE DESCRIPTION: The course provides attendees with a broad overview of the Resource Conservation and Recovery Act (RCRA). Now incorporating a previously separate workshop, "Definition of Solid and Hazardous Wastes," the course is designed to provide a solid foundation on this complex legislation. Following a comprehensive introduction to RCRA, emphasis will be placed on Subtitle C (hazardous waste) by focusing on the definitions of solid and hazardous wastes (i.e., how to determine if a waste is hazardous under RCRA regulations), exemptions from both definitions, and the applicability of RCRA to radioactive mixed waste. In addition, each component of the Subtitle C "cradle-to-grave" hazardous waste management system, including the land disposal restrictions (LDR) program, will be examined. Overviews of Subtitles D (nonhazardous solid waste) and I (underground storage tanks) will be presented as well. The course manual consists of 11 modules and extensive DOE, EPA, and *Federal Register* reference material and regulations. It contains key word indices to facilitate its future use as a comprehensive reference to the RCRA program as well as module-specific self assessment questions/answers and a final exam. Topics covered include:

- Introduction to the regulatory process;
- Overview of RCRA;
- Subtitle C, D, and I program overviews;
- The Aberdeen case and EPA enforcement authorities;
- Definition of solid waste;
- Definition of hazardous waste;
- Subtitle C program: Generator categories and requirements;
- Subtitle C program: Pretransport and transport requirements;
- Subtitle C program: Hazardous waste reporting and record keeping;
- Subtitle C program: Permitting and corrective action; and
- Subtitle C program: Land disposal restrictions ("LDR").

Participants will receive 2.4 Continuing Education Units (CEUs) for completion of this course.

## Internet Resources for Hazardous Waste-Related Information

**U. S. Department of Energy (DOE):** Information related to DOE and paths to laws, regulations, and information updates can be accessed through homepage address:

<http://tis-nt.eh.doe.gov/oepa/>

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**Environmental Protection Agency (EPA):** The EPA server has links to different office, region, and laboratory homepages. The homepage posts different EPA programs, initiatives, and events. The server can search EPA libraries and hotlines. All relevant rules, regulations, legislation, and EPA publications can also be accessed through homepage address.

<http://www.epa.gov/>

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**RCRA, UST, Superfund, and EPCRA Hotline:** The hotline resources can be directly accessed through this homepage.

<http://www.epa.gov/epaoswer/hotline/index.htm>

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**Code of Federal Regulations (CFRs):** The CFRs are provided by the Office of the Law Revision Counsel of the United States House of Representatives. The CFR database service is searchable, but the information may be outdated. Users should verify results with the printed CFRs available through the U.S. Government Printing Office.

<http://www.access.gpo.gov/nara/cfr/cfr-table-search.html>

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**Index to U.S. EPA Test Methods:** EPA has formulated hundreds of test methods. This homepage provides a list, drawn from the January 1996 edition of the "Index to U.S. EPA Test Methods," to find specific EPA test methods. Users must first find the substance or the method type in the alphabetical list by scrolling down or using the web browser's word search function. The test method number is the next item on the line.

<http://www.neis.com/epaindex.html>

**Occupational Safety and Health Administration (OSHA):** The OSHA homepage includes regulations, *Federal Register* notices, preambles, interpretations, directives, fact sheets, memoranda of understanding, Hazard Information Bulletins, Field Inspection Reference Manual, OSHA Technical Manual, and other agency memoranda, letters and documents. Because hazardous wastes are also hazardous materials, OSHA guidance may be useful in determining personal protective and emergency response equipment required at 90-day points and permitted hazardous waste management facilities. The homepage can be accessed at:

**<http://www.osha.gov>**

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### **Other Worldwide Web Areas of Interest:**

National Response Center: **<http://www.nrc.uscg.mil/>**

Air and Waste Management Association: **<http://www.awma.org/>**

National Fire Protection Association: **<http://www.nfpa.org/>**

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### **E-Mail Services**

*Federal Register* Notices: EPA provides free distribution of daily *Federal Register* notices through E-mail. To subscribe to the list:

Send an e-mail to: [listserv@unixmail.rtpnc.epa.gov](mailto:listserv@unixmail.rtpnc.epa.gov)

Subject: SUBSCRIBE TO LISTSERVERS

Message: SUBSCRIBE EPA-WASTE <your first name> <your last name>

Do not add any extra text to the message.

RCRA, UST, Superfund, and EPCRA Hotline Information: EPA maintains several free electronic mailing lists for RCRA, and CERCLA updates and monthly reports as they are released.

To subscribe to the list:

Send an e-mail to: [listserv@unixmail.rtpnc.epa.gov](mailto:listserv@unixmail.rtpnc.epa.gov)

Subject: SUBSCRIBE TO LISTSERVERS

Message: SUBSCRIBE HOTLINE\_OSWER <your first name> <your last name>

Do not add any extra text to the message.

**MASTER REGULATORY-STATUTORY CITATION/KEY WORD INDEX**

**Statutory/Regulatory Citations**

<b><u>Citation(s)</u></b>	<b><u>Page Number(s)</u></b>
40 CFR 124.10 .....	P-21
40 CFR 124.11 .....	P-22
40 CFR 124.14 .....	P-22
40 CFR 124.15 .....	P-22
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40 CFR 260.10 .....	I-18, I-22; P-3; SW-10
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### Alphabetical Key Word Listing

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